

RADIO FREQUENCY IDENTIFICATION (RFID) BASED SENSOR NETWORKS

ABSTRACT OF THE DISCLOSURE

An RF addressable sensor network architecture is provided. The RF addressable sensor network includes one or more RF addressable sensors, one or more wireless sensor readers coupled to a communications network, and one or more end user devices coupled to the communications network. The RF addressable sensor network may also include a sensor network processor. An RF addressable sensor includes one or more sensor elements, one or more antennas for communicating with the wireless sensor reader, an RF power and communications interface, and RFID control module, and a sensor interface. The wireless sensor reader includes one or more antennas, a user interface, a controller, a network communications module, and an RF addressable sensor logic module.